

WHAT IS CLAIMED IS:

1 ~~Sub A1~~ 1. A frame for a shelter structure, comprising:  
2 a plurality of poles arranged in intersecting relationship and forming a  
3 plurality of pole crossings such that at least one four sided opening is formed having pole  
4 crossings as vertices and sections of said poles as sides thereof;  
5 each of said poles having a first terminal end and a second terminal  
6 end;  
7 each of said poles assuming a substantially arcuate shape under tension  
8 with said first and second terminal ends of each pole terminating in a common plane to  
9 thereby define an interior volume; and  
10 at least one tension harness connected between diagonal vertices of  
11 said opening.

1 ~~Sub B2~~ 2. A shelter structure comprising the frame of claim 1 and a membrane  
2 connected to at least some of said poles to substantially shelter said interior volume.

1 3. The frame of claim 1 wherein said poles are arranged to form a  
2 plurality of said four-sided openings.

1 ~~Sub A2~~ 4. The frame of claim 1 wherein said poles are arranged to define an  
2 interior volume that is substantially dome-like in shape.

1 5. The frame of claim 1 including a tension harness connected between  
2 each set of diagonal vertices of said opening.

1 6. The frame of claim 3 including at least one tension harness connected  
2 between at least one set of diagonal vertices of each opening.

1 7. The frame of claim 3 including a tension harness connected between  
2 each set of diagonal vertices of each opening.

1 ~~Sub B4~~ 8. The frame of claim 1 wherein said poles are substantially flexible and  
2 resilient.

1 9. The frame of claim 1 wherein at least some pairs of intersecting poles  
2 are connected together near at least some of said pole crossings.

1 Sub B<sup>4</sup> Cont →

2 10. The frame of claim 1 wherein each pair of intersecting poles is  
2 connected together near each of the pole crossings.

1 11. The frame of claim 1 wherein a plurality of four-sided openings are  
2 formed, at least some of which are adjacent each other.

1 12. The frame of claim 11 having at least one tension harness connected  
2 between the diagonal vertices of at least one pair of adjacent openings.

1 13. The frame of claim 11 having at least one tension harness connected  
2 between the diagonal vertices of each pair of adjacent openings.

1 14. The frame of claim 11 having tension harnesses interconnecting the  
2 diagonal vertices of all adjacent openings.

1 15. The frame of claim 11 having tension harnesses interconnecting the  
2 diagonal vertices of all diagonally adjacent openings.

1 16. The frame of claim 1 having a free end of at least one tension harness  
2 fastened to the common plane.

1 17. The frame of claim 1 having <sup>a</sup>the free ends of each tension harness  
2 fastened to the common plane.

1 18. The frame of claim 1 wherein said tension harness is constructed of  
2 low stretch material.

1 19. The shelter structure of claim 2 wherein said tension harness is  
2 integrally formed with said membrane.

1 20. The shelter structure of claim 2 wherein said tension harness is  
2 connected to said membrane at a plurality of points.

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